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APPLICATION NO	. Fi	ILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO
10/711,080	80 08/20/2004		Omer H. Dokumaci	FIS920040086US1	5079
29625	7590	12/09/2004		EXAMINER	
	E WOODS	EVERHART,	EVERHART, CARIDAD		
SUITE 180		'•		ART UNIT	PAPER NUMBER
MCLEAN,	VA 2210	02-4215	2825		
				DATE MAILED: 12/09/2004	,

Please find below and/or attached an Office communication concerning this application or proceeding.

			Me
	Application No.	Applicant(s)	
·	10/711,080	DOKUMACI ET AL.	
Office Action Summary	Examiner	Art Unit	
	Caridad M. Everhart	2825	
The MAILING DATE of this communication Period for Reply	appears on the cover sheet with	h the correspondence address -	
A SHORTENED STATUTORY PERIOD FOR RETHE MAILING DATE OF THIS COMMUNICATION - Extensions of time may be available under the provisions of 37 CF after SIX (6) MONTHS from the mailing date of this communication. - If the period for reply specified above is less than thirty (30) days, and a light of the period for reply is specified above, the maximum statutory period for reply within the set or extended period for reply will, by so any reply received by the Office later than three months after the meaned patent term adjustment. See 37 CFR 1.704(b).	DN. R 1.136(a). In no event, however, may a replace. The reply within the statutory minimum of thirty eriod will apply and will expire SIX (6) MONT statute, cause the application to become ABA	oly be timely filed (30) days will be considered timely. HS from the mailing date of this communical NDONED (35 U.S.C. § 133).	tion.
Status			
1) Responsive to communication(s) filed on _			
2a) ☐ This action is FINAL . 2b) ☒ 1	This action is non-final.		
3) Since this application is in condition for allo	owance except for formal matte	rs, prosecution as to the merits	is
closed in accordance with the practice und	ler <i>Ex parte Quayle</i> , 1935 C.D.	11, 453 O.G. 213.	
Disposition of Claims			
4) Claim(s) 1-23 is/are pending in the applica	tion.		
4a) Of the above claim(s) is/are with	drawn from consideration.		
5) Claim(s) is/are allowed.			
6)⊠ Claim(s) <u>1-23</u> is/are rejected.			
7) Claim(s) is/are objected to.			
8) Claim(s) are subject to restriction ar	nd/or election requirement.		
Application Papers			
9) The specification is objected to by the Exar			
10) The drawing(s) filed on is/are: a)	accepted or b) objected to b	y the Examiner.	
Applicant may not request that any objection to		· ·	
Replacement drawing sheet(s) including the co	,	•	•
11) The oath or declaration is objected to by the	e Examiner. Note the attached	Office Action or form P1O-152	•
Priority under 35 U.S.C. § 119			
12) Acknowledgment is made of a claim for force a) All b) Some * c) None of: 1. Certified copies of the priority documents		119(a)-(d) or (f).	-
2. Certified copies of the priority docum		plication No	
3. Copies of the certified copies of the	priority documents have been r	eceived in this National Stage	
application from the International Bu	reau (PCT Rule 17.2(a)).		•
* See the attached detailed Office action for a	list of the certified copies not r	eceived.	
Attachment(s) I) Notice of References Cited (PTO-892)	A) Intended Se	ımmary (PTO-413)	
2) Notice of References Cited (P10-692) 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)	Paper No(s)	/Mail Date	
Information Disclosure Statement(s) (PTO-1449 or PTO/Statement Paper No(s)/Mail Date 8-20-2004.	· · · · · · · · · · · · · · · · · · ·	formal Patent Application (PTO-152)	

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Art Unit: 2825

Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

Claims 1-13, 15-18, and 20-23 are rejected under 35 U.S.C. 102(b) as being anticipated by Kamata, et al. (US 2002/0063299A1).

Kamata, et al discloses the steps of forming a gate which at least partially overlaps source and drain regions 8(paragraph 0056). The spacers can be seen to partially overlap regions 8 of the substrate in Fig. 2B(e), and the spacers are understood to be part of the gate. A first step of material is formed adjacent a side of the gate, and a second step of material raised above the first step is formed remote from the side of the gate, as can be seen in the embodiment shown in Fig. 7(b) and in 7(c), the material in the undercut is the first step and the material in the second step which is at a distance from the sidewall is higher than the material in the first step. (Fig. 7(b) and 7(c) and paragraphs 0075 and 0076). The material of layer 8 is epitaxially grown Si(pargaph 0074). The layer is grown from a growth step(paragraph 0074). The spacers are formed by anisotropic ethc(paragraph 0050). The undercut is formed by a DHF etch(paragraph 0075), which is an isotropic wet etch. The first step is formed in the undercut, as pointed out above. The second step is formed next to the sidewall spacers, as is pointed out in the portions of Kamata, et al cited above. There is a silicidation step(paragraph 0097). Fig. 2B(a) shows portions 8 which are source/drain

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portions of the substrate and are therefore made conductive. Fig. 7a shows that the first step contacts part of that region. Silicide may be formed on the source/drain regions(paragraph 0106), and therefore may be formed on the second step, which is the portion of the source/drain regions which are exposed to the silicidation step.

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

This application currently names joint inventors. In considering patentability of the claims under 35 U.S.C. 103(a), the examiner presumes that the subject matter of the various claims was commonly owned at the time any inventions covered therein were made absent any evidence to the contrary. Applicant is advised of the obligation under 37 CFR 1.56 to point out the inventor and invention dates of each claim that was not commonly owned at the time a later invention was made in order for the examiner to consider the applicability of 35 U.S.C. 103(c) and potential 35 U.S.C. 102(e), (f) or (g) prior art under 35 U.S.C. 103(a).

Claims 14 and 19 are rejected under 35 U.S.C. 103(a) as being unpatentable over Kamata, et al. as applied to claim 1 above

Kamata, et al is silent with respect to the recited dimensions. It would have been obvious to one of ordinary skill in the art at the time of the invention to have chosen the

recited dimensions for the height of the conductive regions because these are variables of the art which one of ordinary skill in the art would have been able to determine.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Caridad M. Everhart whose telephone number is 571-272-1892. The examiner can normally be reached on Monday through Fridays 7:30-4:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Matthew S. Smith can be reached on 571-272-1907. The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

C. Everhart 12-4-2004

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